



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07K 14/47, A61K 38/17, G01N 33/68	A1	(11) International Publication Number: WO 97/40068 (43) International Publication Date: 30 October 1997 (30.10.97)
<p>(21) International Application Number: PCT/EP97/02051</p> <p>(22) International Filing Date: 22 April 1997 (22.04.97)</p> <p>(30) Priority Data: 96201106.0 24 April 1996 (24.04.96) EP</p> <p>(34) Countries for which the regional or international application was filed: NL et al.</p> <p>(71) Applicant (for all designated States except US): AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): BOOTS, Anna, Maria, Helena [NL/NL]; Verlengde Torenstraat 10, NL-5366 AV Megen (NL). VERHEIJDEN, Gijsbertus, Franciscus, Maria [NL/NL]; Heischouw 7, NL-5345 XT Oss (NL).</p> <p>(74) Agent: HERMANS, Franciscus, G., M.; P.O. Box 20, NL-5340 BH Oss (NL).</p>		<p>(81) Designated States: AU, BR, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, RU, SG, TR, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>

(54) Title: NOVEL PEPTIDES SUITABLE FOR USE IN ANTIGEN SPECIFIC IMMUNOSUPPRESSIVE THERAPY

(57) Abstract

The invention relates to peptides consisting of 16 to 55 amino acid residues, said peptides comprising at least one of the amino acid sequences LVCYYTSWS (SEQ ID NO:60), FLCTHIIYS (SEQ ID NO:61), IIYSFANIS (SEQ ID NO:62), LKTLLSVGG (SEQ ID NO:63), FIKSVPPFL (SEQ ID NO:64), FDGLDLAWL (SEQ ID NO:65), LYPGRRDKQ (SEQ ID NO:66), YDIAKISQH (SEQ ID NO:67), LDFISIMTY (SEQ ID NO:68), FISIMTYDF (SEQ ID NO:69), FRGQEDASP (SEQ ID NO:70), YAVGYMLRL (SEQ ID NO:71), MLRLGAPAS (SEQ ID NO:72), LAYYEICDF (SEQ ID NO:73), LRGATVHRT (SEQ ID NO:74), YLKDRQLAG (SEQ ID NO:75), LAGAMVWAL (SEQ ID NO:76), VWALDLDDF (SEQ ID NO:77) or LDLDDFQGS (SEQ ID NO:78). The peptides can be used in the treatment of T-cell mediated destruction of articular cartilage. Administration of pharmaceutical compositions based on these peptides can be used to induce systemic immunological tolerance to the autoantigens under attack of the autoreactive T-cells.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AU	Austria	FR	France	LU	Luxembourg	SN	Senegal
AZ	Azerbaijan	GA	Gabon	LV	Latvia	SZ	Swaziland
BA	Bosnia and Herzegovina	GB	United Kingdom	MC	Monaco	TD	Chad
BB	Barbados	GE	Georgia	MD	Republic of Moldova	TG	Togo
BE	Belgium	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BF	Burkina Faso	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BG	Bulgaria	GR	Greece	ML	Mali	TR	Turkey
BJ	Benin	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BR	Brazil	IE	Ireland	MR	Mauritania	UA	Ukraine
BY	Belarus	IL	Israel	MW	Malawi	UG	Uganda
CA	Canada	IS	Iceland	MX	Mexico	US	United States of America
CF	Central African Republic	IT	Italy	NE	Niger	UZ	Uzbekistan
CG	Congo	JP	Japan	NL	Netherlands	VN	Viet Nam
CH	Switzerland	KE	Kenya	NO	Norway	YU	Yugoslavia
CI	Côte d'Ivoire	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CM	Cameroon	KP	Democratic People's Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakhstan	RO	Romania		
	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
		LI	Liechtenstein	SD	Sudan		
		LK	Sri Lanka	SE	Sweden		
			Thailand	SG	Singapore		